




















DMX Channel Selection (DMX Protocol)

Channel	Function	DMX-value	Hex-value	Value in %
1) Pan	Pan- Position	0 - 255	0 - FF	0 – 100%
2) Tilt	Tilt- Position	0 - 255	0 - FF	0 – 100%
3) Color	white / open	0 -3	0 - 3	1%
	open / Dark Blue B01	4 - 7	4 - 7	2%
	Dark Blue B01	8 - 11	8 - B	3%
	Half-Color 2	12 - 15	C - F	5%
	Dark Green G01	16 - 19	10 - 13	7%
	Half-Color 3	20 - 23	14 - 17	8%
	Light Yellow Y0200	24 - 27	18 - 1B	10%
	Half-Color 4	28 - 31	1C - 1F	11%
	Bright Blue B2879	32 - 35	20 - 23	13%
	Half-Color 5	36 - 39	24 - 27	15%
	Lavender V98349	40 - 43	28 - 2B	16%
	Half-Color 6	44 - 47	2C - 2F	18%
	Magenta M56339	48 - 51	30 - 33	19%
	Half-Color 7	52 - 55	34 - 37	21%
	Light Blue B6467	56 - 59	38 - 3B	22%
	Half-Color 8	60 - 63	3C - 3F	24%
	Fire 00819	64 - 67	40 - 43	25%
	Half-Color 9	68 - 71	44 - 47	27%
	Turquoise C4700	72 - 75	48 - 4B	29%
	Half-Color 10	76 - 79	4C - 4F	30%
	Pink M6336	80 - 83	50 - 53	32%
	Half-Color 11	84 - 87	54 - 57	33%
	Canary Y89312	88 - 91	58 - 5B	35%
	Half-Color 12	92 - 95	5C - 5F	36%
	Golden Amber O5921	96 - 99	60 - 63	38%
	Half-Color 13	100 - 103	64 - 67	40%
	Red R9926	104 - 107	68 - 6B	41%
	Half-Color 14	108 - 111	6C - 6F	43%
	Italien Blue C45370	112 - 115	70 - 73	44%
	Half-Color 15	116 - 119	74 - 77	46%
	Green G28389	120 - 123	78 - 7B	47%
	Half-Color 16	124 - 127	7C - 7F	49%
	Multicolor 1	128 - 131	80 - 83	50%

Channel	Function	DMX-value	Hex-value	Value in %
	Half-Color 17	132 - 135	84 - 87	52%
	Multicolor 2	136 - 139	8 - 8B	53%
	Rotation, slow - fast	140 - 253	8C - FD	54 - 98%
	music color chaser (slow)	254	FE	99%
	music color chaser (fast)	255	FF	100%
4) Gobos	open	0 - 7	0 - 7	2%
	Gobo 1  (exchangeable)	8 - 15	8 - F	5%
	Gobo 2  (exchangeable)	16 - 23	10 - 17	8%
	Gobo 3 	24 - 31	18 - 1F	11%
	Gobo 4 	32 - 39	20 - 27	15%
	Gobo 5 	40 - 47	28 - 2F	18%
	Gobo 6 	48 - 55	30 - 37	21%
	Gobo 7 	56 - 63	38 - 3F	24%
	Gobo 8 	64 - 71	40 - 47	27%
	Gobo 9 	72 - 79	48 - 4F	30%
	Gobo 10 	80 - 87	50 - 57	33%
	Gobo 11 	88 - 95	58 - 5F	36%
	Gobo 12 	96 - 103	60 - 67	40%
	Gobo 13 	104 - 111	68 - 6F	42%
	Gobo 14 	112 - 119	70 - 77	45%
	Gobo 15 	120 - 127	78 - 7F	48%
	Gobo 16 	128 - 135	80 - 87	52%
	Gobo 17 	136 - 143	88 - 8F	55%
	Gobo 18 	144 - 151	90 - 97	58%
	Gobo 19 	152 - 159	98 - 9F	60%
	music Gobo chaser (slow)	254	FE	99%
	music Gobo chaser (fast)	255	FF	100%
5) Shutter	Shutter closed	0 - 15	00 - 0F	0 - 3%
	Random Shutter	16 - 31	10 - 1F	9%
	Audio Shutter	32 - 47	20 - 2F	16%
	Shutter frequency, slow - fast	48 - 239	30 - EF	17 - 93%
	Shutter open	240 - 255	F0 - FF	94 - 100%

Channel	Function			DMX-value	Hex-value	Value in %
	Lampe ON			9 - 255	09 - FF	4 - 100%
	Lampe OFF after 1 minute			0 - 8	0 - 8	0 - 3%
6) Speed	Pan/Tilt, relative			0 - 1	00 - 01	0 - 1
	Pan/Tilt, slow - fast			2 - 255	02 - FF	2 - 100%
7) Movement	no movement			0	00	0
	Movement	Size	Phase			
	PAN	1	0°	01..01	01..01	0,5%
		1	90°	02..03	02..03	1,0%
		1	180°	04..05	04..05	1,7%
		1	270°	06..07	06..07	2,5%
	PAN	2	0°	08..09	08..09	3,3%
		2	90°	10..11	0A..0B	4,1%
		2	180°	12..13	0C..0D	4,9%
		2	270°	14..15	0E..0F	5,7%
	PAN	3	0°	16..17	11..11	6,5%
		3	90°	18..19	12..13	7,3%
		3	180°	20..21	14..15	8,0%
		3	270°	22..23	16..17	8,8%
	PAN	4	0°	24..25	18..19	9,6%
		4	90°	26..27	1A..1B	10,4%
		4	180°	28..29	1C..1D	11,2%
		4	270°	30..31	1E..1F	12%
	TILT			32..63	20..3F	13..25%
	PAN / TILT			64..95	40..5F	26..37%
	PAN / TILT (inverse)			96..127	60..7F	38..50%
	Circle			128..159	80..9F	51..62%
	Circle (inverse)			160..191	A0..BF	63..75%
	lying eight			192..223	C0..DF	76..87%
	random movement			224..255	E0..FF	88..100%
8) Laser	Laser OFF			0 - 15	00 - 0F	0 - 3%
	Laser flashes, random			16 - 31	10 - 1F	9%
	Laser Audio controlled			32 - 47	20 - 2F	16%
	Laser blinking, slow - fast			48 - 127	30 - 7F	17 - 49%
	Laser blinking, slow - fast			128 - 239	80 - EF	50 - 93%
	Laser ON			240 - 255	F0 - FF	94 - 100%
9) Special	n.a.			0 - 63	0 - 3F	0 - 25%
	Color-Chaser, Color <-> C + 1, slow - fast			64 - 79	40 - 4F	26 - 31%
	Color-Chaser, Color <-> C + 2, slow - fast			80 - 95	50 - 5F	32% - 37%
	Pan/Tilt Audio controlled --> slow			96 - 111	60 - 6F	38 - 44%
	Pan/Tilt Audio controlled --> fast			112 - 127	70 - 7F	45- 49%
	Pan/Tilt random positions			128 - 143	80 - 8F	50 - 56%
	Lamp OFF after 3 sec. (only if Shutter is closed)			230 - 249	EF - F9	90 - 97%
	Reset after 3 sec.			250 - 255	FA - FF	98 - 100%